THE SILVER INSTITUTE LETTER

INFORMATION ON SILVER FOR INDUSTRY

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SILVER COMPOSITION HEALS BURN VICTIMS

Above, left. Marion Laboratories produces Silvadene. Right. Using Flammazine in Barcelona, Spain. Both medicines contain silver sulfadiazine.

Thousands of the world's hospitals use silver sulfadiazine to treat hundreds of thousands of persons on every continent who are hospitalized each year for serious burn injuries.

To understand the seriousness of burns, one must understand the importance of skin. A recent report of the **Washington Hospital Center** of Washington, D.C., noted that skin "shields us from armies of hostile microorganisms, all eager to wreak havoc inside the body . . . When a severe burn destroys the skin, it is destroying our defenses against devastating fluid loss, deadly infection and uncontrolled temperature extremes," and in the case of the most serious burns "the wound becomes a fertile breeding ground for infection and an immediate danger to life."

"Silver sulfadiazine cream is used to effectively combat the very grave risk of infection because it can **eliminate hundreds of organisms, including Gram-positive and Gram-negative bacteria and fungi,** and by being applied directly to the burned area, the silver sulfadiazine cream can overcome bacteria when standard antibiotics do little good because the blood vessels that might take them to the injured area have been destroyed. This cream also has remarkable healing properties which help speed the patient's recovery," according to the doctor whom the American Burn Association honored for his pioneer research in this field, Charles L. Fox, Jr., M.D., Professor of Microbiology, Columbia University College of Physicians and Surgeons, 622 W. 168th Street, New York, N.Y. 10034.

A report by **Marion Laboratories,** 10236 Bunker Ridge Road, Kansas City, Missouri 64137, manufacturer of Silvadene Cream (silver sulfadiazine, micronized), indicates that in addition to the healing powers and germ-killing efficacy of this compound, "Silvadene Cream's application on burned patients is virtually painless. Frequent applications of Silvadene are not needed. Dressings are nonadherent and easily changed without the use of analgesics. When burns are well-covered, patients feel warm, there is less loss of heat, and surface evaporation of water is diminished. It does not stain linen, dressings, or patients."

Silver sulfadiazine creams are also manufactured as Flamazine by **Smith & Nephew,** 2 Temple Place, London WC2R 3BP England and by Smith & Nephew Ltd., 2100 52nd Avenue, Lachine, Quebec, Canada. **Philips-Duphar Nederland BV,** Postbus 7133, Amsterdam, The Netherlands, produces it as Flammazine. The silver sulfadiazine composition is also produced in Germany, India, Israel, Mexico and Spain, extending its healing benefits throughout the world.

VIKINGS, OLYMPIC MEDALISTS AND GYMNASTS ADORN SILVER COINS

"Odin's Raven" is the name of the replica of the Viking longship portrayed on the Isle of Man 50 pence sterling silver proof coin shown below. "Odin's Raven" is to form the chief exhibit in an exhibition of Viking culture in New York City, and each coin has an edge-lettered inscription reading ODINS RAVEN VIKING EXHIBN NEW YORK 1980. "Odin's Raven" actually made the voyage

from Norway to the Isle of Man to celebrate the Manx Millennium Viking Voyage, the emblem of which is on the sail of the coin's longship. The Point of Ayre lighthouse is in the background because it was the modern Vikings first landfall on the Isle of Man. Additional information about this coin may be obtained from Pobjoy Mint Ltd., Mint House, Oldfields Road, Sutton, Surrey, England.

The largest and heaviest silver coin currently being issued, above right, is Jamaica's $25.00 proof 500 fine silver coin which measures 63 mm in diameter and weighs 2,100 grains, honors Jamaica's Olympic Gold Medal winners of track and field events. Jamaica's five medalists portrayed on this coin are Arthur Wint (1948 Olympics), George Rhoden, Leslie Laing and Herbert McKenley in 1952 in the Helsinki, Finland games, and Donald Quarrie in Montreal in 1976. This coin can be purchased from Paramount International Coin Corporation, One Paramount Plaza, Englewood, Ohio 45322.

In Czechoslovakia, a beautiful 500 fine silver 100-korun commemorative coin was struck to mark the holding of the fifth international exhibition of gymnastic skills. Featuring a line of 8 standing girl gymnasts, this coin may be ordered from ARTIA, Smecky 30, Prague 1, Czechoslovakia.

SILVER INSTITUTE BOARD MEETS IN SAN FRANCISCO

On September 23rd, Institute Chairman Charles D. Snead, Jr. presided at The Silver Institute Board Meeting in San Francisco. Richard L. Davies, Executive Director, reported on the Institute's increasingly important work in developing new uses of silver and in providing precise and timely statistics. He also reported that the staff is working with the U.S. Bureau of Mines and a film production firm in New York City in developing an **updated version of the motion picture film, SILVER.**

A 27-minute production, SILVER will show current safe mining practices, refining processes and illustrated descriptions of present-day industrial and traditional uses of silver. The properties of silver that make it one of man's most valuable industrial metals—its ability to conduct electricity and heat, reflect light, resist oxidation and corrosion, and retain its strength despite severe distortion—are all described. Financed by the members of The Silver Institute, the SILVER film will be ready for viewing by February 2, 1981.

Mr. Davies noted that, as in the past, 16 mm prints of SILVER will be available for circulation on a free-loan basis to scientific, educational, civic, professional and business organizations and other responsible groups from Motion Pictures, Bureau of Mines, U.S. Department of Interior, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213.

The President of The Silver Institute, Bernhard Rohe of Industrias Peñoles, S.A. of Mexico, reported on the progress of The Silver Institute and the silver industry from the point of view of member companies which mine silver. He then called on Past Vice President of the Institute, Alex Schmidt-Fellner of AMAX Inc. to report on the silver refiner's view of the silver industry. The point of view of member companies which manufacture silver products was reported by Institute Vice President for Canada, Anthony M.B. Hart of Johnson Matthey Limited. And member of the Institute Board of Directors, J. Robert C. Guy of N.M. Rothschild & Sons of London, England, summarized recent developments in the silver industry, representing member companies which regularly stock silver bullion and regularly supply it to manufacturers.

At left, l. to r., Silver Institute Chairman, Charles D. Snead, Jr.: President, Bernhard Rohe; a Founder and Past Vice President, Alex Schmidt-Fellner; Vice President for Canada, Anthony M.B. Hart and a Board Member, Robert Guy. At right, Jorge Larea of Industrial Minera México, S.A. and Charles Barber of ASARCO Inc.

LONDON MEETING SCHEDULED FOR 1981

During the Institute Board Meeting in San Francisco, member of the Institute Board of Directors, Kenneth R. Barrett (shown at left) of Britannia Refined Metals Limited of London, England, announced that Institute Vice President Werner Knies of Degussa of the Federal Republic of Germany and representatives of other European and African member companies proposed that a Silver Institute meeting be held in London, England on April 27, 1981. Chairman of the Board of The Silver Institute, Charles D. Snead, Jr. of Callahan Mining Corporation asked for a discussion of the proposal. The proposal was enthusiastically endorsed, and the Executive Director was asked to proceed with the necessary arrangements with the cooperation of Mr. Barrett and representatives of other member companies.

NEW BOARD MEMBER ELECTED

The new President of Nippon Mining Co., Ltd. of Japan, Mr. Takanobu Sasaki, was nominated and elected by the Board to be a member of the Silver Institute Board of Directors. Members of the Institute's Board of Directors include citizens of the United States, Australia, England, Canada, Chile, West Germany, France, Peru, Mexico and Japan.

SILVER INSTITUTE DIRECTORS ACTIVE IN AMERICAN MINING CONGRESS

Silver Institute Past President, Robert M. Reininger, (below, left) of Rosario Resources Corporation, chaired the American Mining Congress Session on Processing Gold and Silver Ores on September 23, and the following day, the American Mining Congress Session on Gold and Silver Economics was chaired by Silver Institute Vice President Bob Ross (shown at right) of Engelhard Industries. Member of the Institute Board, Louis Fox of J. Aron & Co., made a principal address in the Gold and Silver Economics Session. And Institute Vice President, Harry Conger, of Homestake Mining Company, acted as an Official Host of the entire American Mining Congress.

NEW MEMBERS WELCOMED

The Silver Institute warmly welcomes the following new members: **CHL Chemical Corporation,** 35 Maynard Court, Los Altos, California 94022, represented in Institute affairs by its President, Dixon Collins; and **New Orleans Silversmiths Inc.** 600 Chartres Street, New Orleans, Louisiana 70130, with its President, Paul J. Leaman, Jr., as its Official Representative.

NEW SILVER TECHNOLOGY QUARTERLY CELEBRATES SEVENTH YEAR

During the past seven years, each January, April, July and October has seen the publication of 70 of the most significant developments in twenty categories of worldwide research on silver and its products in The Silver Institute's quarterly publication, NEW SILVER TECHNOLOGY. For only US $30.00, NEW SILVER TECHNOLOGY will keep subscribers informed of the most important silver developments in 1981.

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LATEST SILVER INSTITUTE REFINING STATISTICS

Production and Disposition of **999 Silver Bars** by All Known Refiners in the United States

	TROY OUNCES	MILLION TROY OUNCES				
	September 1980	Sep 1980	Aug 1980	Jan-Sep 1980	Jan-Sep **1979	Full Yr **1979
THESE REFINERS' PRODUCTION, BY SOURCE		*MONTHLY RATE*				
From Primary (ores & concentrates)	1,882,209	1.9	3.7	3.6	4.9	4.8
From Coins	1,940,345	1.9	0.9	1.8	0.1	0.5
From Old Scrap (used photo film & other products)	3,685,380	3.7	5.4	6.4	5.1	5.2
From New Scrap (in-plant clippings, waste)*	3,277,366	3.3	1.6	2.7	2.0	2.3
TOTAL PRODUCTION	10,785,300	10.8	11.6	14.5	12.1	12.7
TOTAL PRODUCTION Less New Scrap*	7,507,934	7.5	10.0	11.8	10.1	10.4
ABOVE TOTAL PRODUCTION, BY OWNERSHIP						
From Refiners' Own or Purchased Materials	7,656,358	7.7	7.2	9.4	8.9	9.0
Refined on Toll for Others	3,128,942	3.1	4.3	5.1	3.2	3.7
DISPOSITION BY THESE REFINERS						
Converted in Plant (consumed in fabricating, etc.)	5,006,982	5.0	3.2	4.8	3.0	3.1
Shipped Out: Own materials	3,467,406	3.5	3.2	4.8	6.8	7.0
Against Tolls	3,084,104	3.1	4.8	4.9	2.1	2.7
TOTAL DISPOSITION	11,558,492	11.6	11.2	14.6	11.9	12.8
TOTAL DISPOSITION Less New Scrap*	8,281,126	8.3	9.6	11.9	9.9	10.5
RESULTING CHANGE OF THESE REFINERS' STOCKS (Production Minus Disposition)	−773,192	−0.8	+0.4	−0.8	+1.7	−1.3
		TOTAL FOR PERIOD				
THESE REFINERS' STOCKS AT END OF PERIOD	789,038	0.8	1.6	0.8	4.6	1.6

Production and Disposition of **999 Silver Bars** by All Known Refiners in Australia, Canada, Mexico, Peru, South Africa and Sweden; and some other Refiners in Europe and Asia.

	TROY OUNCES	MILLION TROY OUNCES				
	September 1980	Sep 1980	Aug 1980	Jan-Sep 1980	Jan-Sep 1979	Full Yr 1979
THESE REFINERS' PRODUCTION, BY SOURCE		*MONTHLY RATE*				
From Primary (ores & concentrates)	11,598,542	11.6	10.6	12.1	12.9	12.7
From Coins	0	0.0	0.0	0.1	0.0+	0.0+
From Old Scrap (used photo film & other products)	7,776,796	7.8	6.9	7.8	3.3	4.1
From New Scrap (in-plant clippings, waste)*	1,411,677	1.4	1.1	1.4	0.7	0.8
TOTAL PRODUCTION	20,787,015	20.8	18.7	21.4	16.9	17.6
TOTAL PRODUCTION Less New Scrap*	19,375,338	19.4	17.5	20.0	16.2	16.8
ABOVE TOTAL PRODUCTION, BY OWNERSHIP						
From Refiners' Own or Purchased Materials	17,041,161	17.0	15.2	17.5	14.5	15.2
Refined on Toll for Others	3,745,854	3.7	3.5	3.9	2.4	2.4
DISPOSITION BY THESE REFINERS						
Converted in Plant (consumed in fabricating, etc.)	6,686,209	6.7	5.5	7.5	3.6	4.3
Shipped Out: Own materials	9,952,139	10.0	9.9	10.3	11.3	11.3
Against Tolls	3,808,746	3.8	3.4	3.3	1.9	2.0
TOTAL DISPOSITION	20,447,094	20.4	18.8	21.1	16.8	17.6
TOTAL DISPOSITION Less New Scrap*	19,035,417	19.0	17.6	19.7	16.1	16.8
RESULTING CHANGE OF THESE REFINERS' STOCKS (Production Minus Disposition)	+339,921	+0.3	−0.1	+2.4	+0.8	+0.4
		TOTAL FOR PERIOD				
THESE REFINERS' STOCKS AT END OF PERIOD	7,738,101	7.7	7.4	7.7	5.8	5.3

* PRODUCTION From New Scrap is 999 silver made from in-plant clippings, spillage, sweepings, etc., generated during manufacturing processes; since it is in continuous cycle from new scrap to 999 silver, to new scrap, some like to see the production and disposition totals after deducting the new scrap from both.

** Revised

THE SILVER INSTITUTE

A WORLDWIDE ASSOCIATION OF MINERS, REFINERS, FABRICATORS AND MANUFACTURERS

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